

## CUMBERLAND RIVER BASIN

03432387 SOUTH PRONG SPENCER CREEK NEAR FRANKLIN, TN

LOCATION.--Lat 35°56'38", long 86°49'35", Williamson County, Hydrologic Unit 05130204, on left upstream side of the bridge on Cool Spring Blvd., 1.7 miles northeast of Franklin, Tennessee.

DRAINAGE AREA.--2.66 mi<sup>2</sup>.

PERIOD OF RECORD.--June 2000 to current year.

GAGE.--Data logger.

REMARKS.--No estimated daily discharges. Records fair. Periodic observations of water temperature and specific conductance are published in this report as miscellaneous water-quality data.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 310 ft<sup>3</sup>/s, Aug. 5, gage height, 10.06 ft; minimum daily discharge, 0.39 ft<sup>3</sup>/s, Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	0.65	3.7	4.4	5.7	12	3.7	5.6	2.8	25	1.5	1.2
2	1.3	0.60	3.2	5.6	9.0	14	3.1	12	2.4	7.0	1.5	2.7
3	1.2	0.59	3.0	3.8	12	7.5	2.8	6.4	2.3	3.8	1.4	1.6
4	1.1	0.59	2.9	3.5	9.3	4.9	2.6	3.7	2.0	4.7	5.2	1.3
5	1.1	0.96	2.5	6.0	160	32	2.4	3.0	1.9	3.0	49	1.3
6	1.0	0.61	2.3	4.3	64	32	2.3	2.6	1.8	3.4	3.9	1.2
7	0.93	0.53	2.1	3.7	30	18	2.2	2.3	1.7	4.5	2.7	1.2
8	0.86	0.49	2.0	3.5	20	11	2.1	2.1	5.7	2.8	2.3	1.2
9	0.83	0.46	1.9	3.5	15	7.6	2.0	1.9	2.4	2.4	2.1	1.2
10	2.1	0.42	6.9	3.0	11	5.3	1.9	9.2	2.0	2.8	1.9	1.1
11	1.1	0.40	3.5	2.7	7.8	4.0	1.9	6.1	1.9	3.8	2.3	1.1
12	0.92	2.0	3.1	2.5	7.7	3.4	16	3.3	17	2.3	2.3	1.1
13	0.86	0.80	3.6	2.4	5.4	3.1	30	4.5	11	2.7	1.9	1.4
14	2.6	0.59	4.1	2.2	4.4	2.9	19	4.9	4.7	2.3	1.7	1.1
15	1.1	0.61	3.2	2.1	3.8	2.7	11	27	3.4	1.9	1.6	1.0
16	0.93	1.9	3.9	2.0	3.3	2.7	7.0	12	2.9	1.8	1.6	8.2
17	0.91	0.96	3.2	2.2	3.0	2.4	4.8	7.2	3.7	1.7	1.5	2.8
18	0.83	20	2.9	17	2.7	2.5	3.6	4.6	2.7	1.6	1.5	0.97
19	0.79	7.1	2.7	8.7	2.5	2.1	3.1	3.5	2.4	1.6	1.4	0.79
20	0.79	3.7	2.6	6.1	2.4	10	2.8	3.0	2.2	1.6	4.1	0.66
21	0.76	2.7	2.4	4.6	2.2	8.3	2.9	2.6	2.0	1.5	2.0	0.57
22	0.75	2.2	2.2	3.8	2.0	4.4	4.5	2.4	2.1	1.4	1.7	0.49
23	0.73	2.0	9.1	3.3	1.9	3.3	6.3	2.2	1.9	1.4	2.1	0.45
24	0.70	14	6.0	3.0	1.9	2.9	3.1	2.0	1.8	1.4	1.7	0.42
25	0.71	5.9	4.8	24	1.8	2.7	2.6	1.9	1.9	1.9	1.7	0.41
26	2.2	4.3	3.9	15	2.8	2.4	2.3	1.8	1.8	2.0	1.5	0.41
27	1.1	4.3	3.4	12	2.0	2.3	2.1	1.7	1.7	1.7	1.4	0.40
28	0.84	11	3.1	9.2	1.8	2.2	1.9	1.7	1.7	1.6	1.4	0.40
29	0.80	6.1	8.5	7.8	1.8	11	1.8	1.6	2.2	1.5	1.3	0.40
30	0.77	4.6	7.4	6.9	---	6.1	2.4	1.7	9.9	1.4	1.3	0.39
31	0.71	---	5.3	6.2	---	5.5	---	22	---	2.4	1.2	---
TOTAL	32.82	101.06	119.4	185.0	397.2	231.2	154.2	166.5	103.9	98.9	108.7	37.46
MEAN	1.06	3.37	3.85	5.97	13.7	7.46	5.14	5.37	3.46	3.19	3.51	1.25
MAX	2.6	20	9.1	24	160	32	30	27	17	25	49	8.2
MIN	0.70	0.40	1.9	2.0	1.8	2.1	1.8	1.6	1.7	1.4	1.2	0.39
CFSM	0.40	1.27	1.45	2.24	5.15	2.80	1.93	2.02	1.30	1.20	1.32	0.47
IN.	0.46	1.41	1.67	2.59	5.55	3.23	2.16	2.33	1.45	1.38	1.52	0.52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

MEAN	1.37	3.39	5.50	5.25	13.3	7.61	4.11	7.27	3.33	1.23	1.22	1.96
MAX	2.78	3.69	7.21	8.63	20.1	14.8	5.68	13.3	6.23	3.19	3.51	5.36
(WY)	(2003)	(2002)	(2003)	(2002)	(2003)	(2002)	(2002)	(2003)	(2003)	(2004)	(2004)	(2003)
MIN	0.06	2.87	3.85	2.58	4.41	3.85	1.51	2.18	0.95	0.16	0.27	0.30
(WY)	(2001)	(2003)	(2004)	(2003)	(2002)	(2003)	(2001)	(2001)	(2000)	(2000)	(2000)	(2000)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 2000 - 2004
ANNUAL TOTAL	1,956.09	1,736.34	
ANNUAL MEAN	5.36	4.74	
HIGHEST ANNUAL MEAN			4.70
LOWEST ANNUAL MEAN			5.75
HIGHEST DAILY MEAN	135	Feb 15	3.25
LOWEST DAILY MEAN	0.33	Sep 1	2003
ANNUAL SEVEN-DAY MINIMUM	0.37	Aug 26	2001
MAXIMUM PEAK FLOW			160
MAXIMUM PEAK STAGE			Feb 5, 2004
ANNUAL RUNOFF (CFSM)	2.01	1.78	a0.01
ANNUAL RUNOFF (INCHES)	27.36	24.28	0.01
10 PERCENT EXCEEDS	8.7	9.2	Oct 28, 2000
50 PERCENT EXCEEDS	2.4	2.4	
90 PERCENT EXCEEDS	0.58	0.83	May 5, 2003
			May 5, 2003

a Many days in 2000 and 2001 water year.

